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October 4, 1965

Mailing Address:

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Post Office Box 8043
Southwest Station
Washington, D. C. 20024

Subject: Proposal for increase in scope of Contract No.

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Dear Sir:

In recent discussions with your technical staff, a need was evidenced for increased support of your technical activity. Certain broad areas were being considered for which you may solicit support. In line with this thinking, we suggest for your consideration an increase in scope of our present activity of providing technical services for in house back up. We propose that additional studies and test and experimental activity be undertaken which will provide increased support in the projection viewing and measuring field. The proposed additional work will be directed to:

- a.) Devising test procedures and performance criteria and conducting tests on existing or newly delivered customer equipment.
- b.) Examining the feasibility of solutions for deficiencies in present and/or newly delivered equipment.
- c.) Exploring the technological feasibility of enhancing the capabilities of photo interpreter viewing and mensuration equipment.

To this end, we propose that Task III "Analysis and Test of Viewing and Mensuration Equipment" be added to the subject contract.

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Enclosure (a) describes the proposed level of effort. Cleared technical and administrative personnel are available for immediate support of the proposed task and therefore rapid initiation of the work can be accomplished. It is suggested, if this proposal is implemented, full scale testing of complete equipments be conducted in your clean room facility maintained in West Los Angeles. The Contractor operating the facility has indicated he would be pleased to cooperate and to provide shop technician personnel in support of equipment testing.

To implement the level of effort set forth in enclosure (a), we propose that the contract funds be increased by [redacted] to provide 7 months support for the proposed Task for the period 1 December, 1965 through 30 June, 1966. No change is proposed in the terms and conditions of the present contract except for direct material, purchased parts and subcontracts. It is proposed that the contract be changed to provide 12% G&A and 7½% fee on direct material, purchased parts and subcontracts.

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No change is proposed for other direct costs such as travel, shipping costs and computer rental, which are billed at net cost to this contractor.

It is anticipated that the specific emphasis and phasing of the proposed work would be directed by a Technical Representative of the Contracting Officer. A definitive and descriptive list of items of work under the proposed task will be maintained. Monthly progress reports, technical reports and test reports will be submitted as required. An initial proposed list of items is provided in enclosure (b).

[redacted] believes it can offer you strong technical support in our particular area of competence. We believe that an important ingredient in the success of the proposed task is an objective unbiased perspective. We have in the past striven diligently, and we believe successfully, to maintain such a viewpoint and the task as proposed will permit continuation of such a viewpoint. Our long association with the technical field and our extensive knowledge of the equipment and equipment problems uniquely qualifies us to perform the work proposed.

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Very truly yours,

[redacted] STAT

Enclosure (a) Proposed Level of Effort

- 1 Principal Associate 100 hrs/mo. Mechanical Engineer skilled in instrumentation development and the photo-reconnaissance equipment field.
- 1 Principal Associate 120 hrs/mo. Physicist skilled in instrumentation development and electronics.
- 2 Senior Associate 100 hrs/mo. Mechanical Engineer skilled in mathematical analysis and computer programming and usage.
- 1 Senior Associate 120 hrs/mo. Mechanical Engineer skilled in photo-mechanism design.
- 1 Senior Designer 120 hrs/mo. Instrument mechanism design and drafting.

Estimated Cost per Month

Labor

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Enclosure (b) Proposed Items of Work for Proposed
Task III. "Analysis and Test of Viewing and Mensuration
Equipment."

Item 1. Analysis and Test of Existing Production Viewer

Analyze the design and test the operation of a viewer of a type currently in use to determine if economic modifications can improve reliability and performance.

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Item 2. Format Temperature

Make a heat balance analysis and test for control of film format temperature under high intensity illumination. Explore feasibility of increasing effective illumination intensity and decreasing format temperature.

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Item 3. Film Focal Plane

Review present techniques for maintaining film focal plane accuracy and assess capability of new techniques for maintaining focus during scanning and slewing.

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Item 4. Automatic Transport

Explore feasibility of automatic threading, liquid bath film cleaning, automatic frame location and automatic data block reading for projection viewers and measuring machines.

Item 5. Structure Analysis and Vibration Control

Make analyses and tests of rigidity and resonances of structures and of vibration control and isolation of machines under consideration.

Item 6. Work Stations

Review existing operator work station arrangements and participate in formulating a Human Factors program for improving the work stations.

Item 7. ^{VIEWER} Screen Illumination Standards

Review existing screen illumination levels, uniformity and resolution and participate in formulating a Human Factors program for establishing standards.

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Enclosure (b) Continued

Item 8. Computer/Viewer Augmentation

Explore the feasibility of augmenting the role of the computer in relation to the projection viewer as an aid to the interpreter.